

**REPRODUKSI
VETERINER**

**LAPORAN HASIL PENELITIAN UNGGULAN PERGURUAN TINGGI
TAHUN ANGGARAN 2012**



**INSULIN LIKE GROWTH FACTOR-I COMPLEX SEBAGAI ALTERNATIF
ANTIOKSIDAN DALAM MEDIA PENDEWASAAN SPERMATOZOA
KAMBING**

**Indah Norma Triana, MSi, Drh
Dr. Suherni Susilowati MKes, Drh
M. Gandul Atik Yuliani, MKes, Drh**

**Dibiayai oleh DIPA Universitas Airlangga sesuai dengan
Surat Keputusan Rektor Tentang kegiatan Penelitian unggulan Perguruan
Tinggi Tahun Anggaran 2012 Nomor: 2613/H3/KR/2012, Tanggal 9 Maret 2012**

**UNIVERSITAS AIRLANGGA
2012**

ABSTRACT

INSULIN LIKE GROWTH FACTOR – I COMPLEX AS A ANTIOXIDANT ALTERNATIF
IN CAPATITAON MEDIUM OF GOAT SPERM

One of the protein in the seminal plasm of goat is Insulin Like Growth Factor –I (IGF-I) Complex. IGF-I Complex has molecular weigth 150,288 kDa which consisted of three protein molecules that were IGF-I (subunit α) , IGFBP (subunit β) and ALS (Acid Label Subunit) (subunit γ) The research was done into two phases. First phase concerned with explorative to identify and isolation of IGF-I Complex and second phase was to supplementation of IGF-I into capatitation medium of goat sperm. The aim of this research was to increased of motiliyi, viability, capatition and decreased of MDA concentration. The benefit of this research was to increased of the sperm quality so that can used for in vitro fertilitation. Analysis with varian showed significant different ($P < 0,05$) to motility, viability, capatitation and MDA concentration. From results above can be concluded that potein of IGF-I Complex can increase of motility, viability, capatitation and decreased of MDA concentration.

